

Figure 1.

Tail										Shaft									
D 30	MSKRLRV.ED	DFNPVYPYGY	ARN.QNIPFL	TPPFVSSDGF	.KNFPPGV					LSLKLADPIA	ITNGDVSLKV								
C 5	M.KRARPS	ED	TFNPVYPYDT	ETGPPTVPFL	TPPFVSPNGF	.QESPPGV				LSLRLSEPLV	TSNGMLALKM								
D 9	MSKRLRV.ED	DFNPVYPYGY	ARN.QNIPFL	TPPFVSSDGF	.QNFPFV					LSLKLADPIA	IVNGNVSLKV								
D 17	MSKRLRV.ED	DFNPVYPYGY	ARN.QNIPFL	TPPFVSSDGF	.KNFPPGV					LSLKLADPIT	IANGDVSLKV								
B 3	MAKRRL. ST	SFNPVYPYED	BSSSQH. PFI	NPGFISPDGF	TQ. SPNGV					LSLKCVNPLT	TASGSLQLKV								
30	GGGLTVEQD.																		135
5	GNGLSL. DEA	GNLTSQNVTT	VSPPLKTKS	NINLEISAPL	TVTSEALTVA	AAAPLMVAGN	TLTMQSQAPL												
9	GGGLTL. QDG	T.																	
17	GGGLTL. QE.																		
3	GSGTLV. D.																		
30					SGNLSV	NPKAPLQ.					VGTDKKLEL								205
5	TVHDSKLSIA	TQGPLTVSEG	KLALQTSQPL	TTTDSSTLTI	TASPPLTTAT	GSLGIDLKEP	IYTQNGKLGL												
9					GKLTV	NADPPLQ.					LTNN. KLGI								
17					GSLTV	DPKAPLQ.					LANNKKLEL								
3										TT.	DGSLEENI								
30	ALAPPFDVRD	. . NKLAILVG	DGLKVIDRSI	SDLPGLLNY.															275
5	KYGAPLHVTD	DLNLTIVATG	PGVTINNTSL	QTKVTGALGF	DSQGNMQLNV	AGGLRIDSQN	RRLILDVSYP												
9	ALDAPPFDVID	. . NKLTLLAG	HGLSII. TKE	TSTLPGLRN.															
17	VYVDPFEVSA	. . NKLSLVKG	HGLKILDDKS	AGGLKDLIG.															
3	KVNTPLTKSN	HSINL. . PIG	NGLQIEQNKL	CS.															
30											LVVLTGKGIG								345
5	FDAQNQLNLR	LGQGPLFINS	AHNLDINYNK	GLYLFTASNN	SKKLEVNLS	AKGLMFDATA	IAINAGDGLE												
9											T	LVVLTGKGIG							
17											K	LVVLTGKGIG							
3																			
30	NEELKNDDGS	NKGVGLCVRI	G. E.	GGGLTF	DDKGYLVAWN	NKHDIRT													400*
5	FG. . SPNAPN	TNPLKTKIGH	GLEFDSNKAM	VPKLGTLGSLF	DSTGAITVGN	KNNDKLT													410*
9	TESTDNGG.	. . TVCVRV.	G. E.	GGGLSF	NNDGDLVAFN	KKEDKRT													
17	TENLQNTDGS	SRGIGISVRA		REGLTF	DNDGYLVAWN	PKYDTRT													
3				KLGNGLTF	DSSNSIALKN	N. . . . .													
30	CKID. . . IEK	DSKLTVLTK	CGSQILANVS	LIIVNGKFKI	LNNKTD. SL	PKSFNIKLLF	DQNGVLLNS												471
5	ORLN. . . AEK	DAKLTVLTK	CGSQILATVS	VLAV. K. . . .	GSLAPISGT	VQSAHLIIRF	DENGVLNNS												
9	CKID. . . QDK	DSKLTVLTK	CGSQILANVS	LIVVDGKYKI	INNNTQP. . A	LKGFTIKLLF	DENGVLMESS												
17	CRID. . . KEK	DSKLTVLTK	CGSQILANVS	LIVVSGKYQY	IDHATNP. . T	LKSPKIKLLF	DNKGVLPPSS												
3	CIIEYGQKNP	DSKLTLLLVK	NGGIVNGYVT	LMGASDYVNT	LFKNKNV. . .	. . SINVELYF	DATGHILPDS												
30	N. . . . . I	EKQYLNFRSG	DSILPEPYKN	AIGFMPNLLA	YAKATTDQSK	IY. . . ARNTI	YGNIIYLDNQP												526*
5	F. . . . . L	DPEYWNFRNG	DLTEGTAYTN	AVGFMPNLSA	YPKSHGK. T. . . .	AKSNI	VSQVYLNQDK												
9	N. . . . . L	GKSYWNFRNE	NSIMSTAYEK	AIGFMPNLVA	YPKPTAG. SK	KY. . . ARDIV	YGNIIYLGKGP												
17	N. . . . . L	DSTYWNFRSD	NLTVSEAYKN	AVEFMPNLVA	YPKPTG. SK	KY. . . ARDIV	YGNIIYLGGLA												
3	SSLKTDLELK	YKQTADF. . .	. . . . . S	ARGFMPSTTA	YPFVLPN. AG	TH. . . NENYI	FGQCYKASD												
30	YN. . . PVVIKI	TFNNEAD. . .	. . . . . SAYSIT	FNYSWTKD. Y	DNIPFDSTSF	TFSYIAQE													582*
5	TK. . . PVTLTI	TLNGTQETGD. TT.	PSAYSMS	FSWDWSGHNY	INEIPATSSY	TFSYIAQE													
9	DQ. . . PVTIKT	TFNQETG. . .	. . . . . CEYSIT	FDPSWAKT. Y	VNVEFETTSF	TFSYIAQE													
17	YQ. . . PVVIKV	TFNEEAD. . .	. . . . . SAYSIT	FEFVWNKE. Y	ARVEFETTSF	TFSYIAQQ													
3	GALFPLEVTV	MLNKRLPDSR	TSYVMTFLWS	LNAGLAPET.	TQATLITSPF	TFSYIRED													

Knob

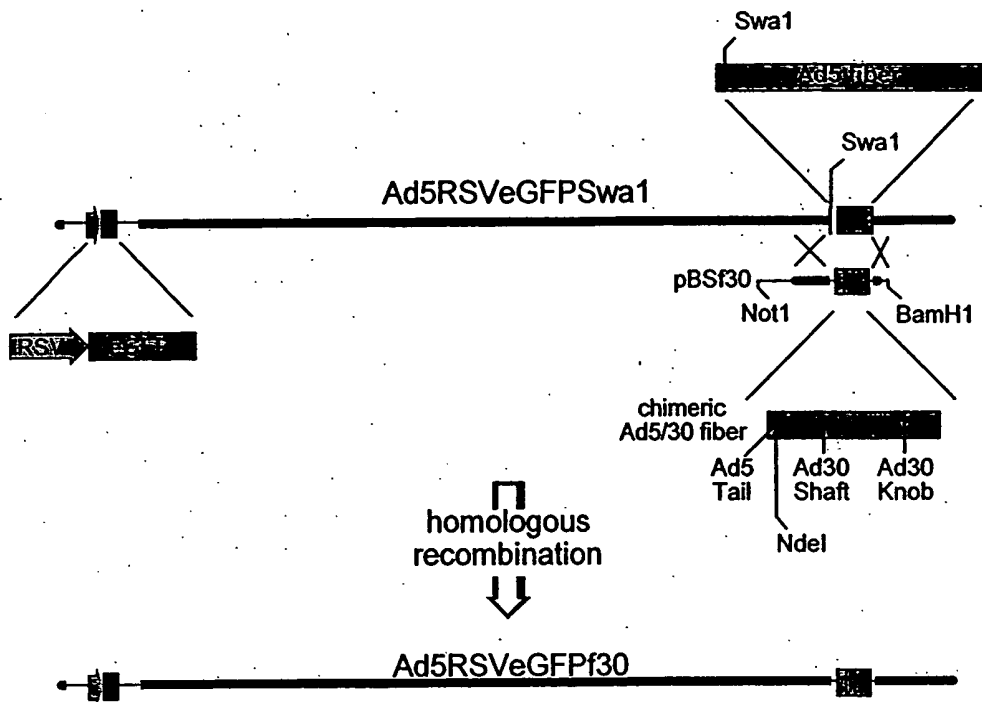
\* numbers refer to Ad5 amino acid sequence

## Figure 2.

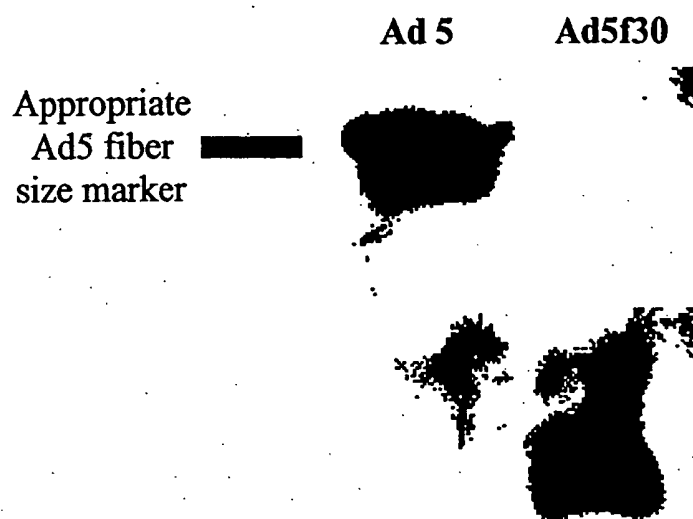
Amino Acids within Ad5 fiber **Important** and **Critical** for CAR Binding

			<u>Binds CAR?</u>			
401 (Ad5)				473 (Ad5)		
D	30	LWTTLDPSPNCKID	?	30	GDSILPEPYKNAIGFMPN	
C	5	LWTT <u>PAP</u> SPNCRLN	Yes	5	LDPEYWNFRNGDLTEGTA	
C	2	LWTTDPSPNCRIH	Yes	2	LKKHYWNFRNGNSTNANP	
D	9	LWTTPDTSFNCKID	Yes/No	9	LGKSYWNFRNENSIMSTA	
D	17	LWTTPDTSFNCKID	Yes	17	LDSTYWNFRSDNLTVSEA	
B	3	LWTGPKPEANCIIE	No	3	.....SARGFMPS	

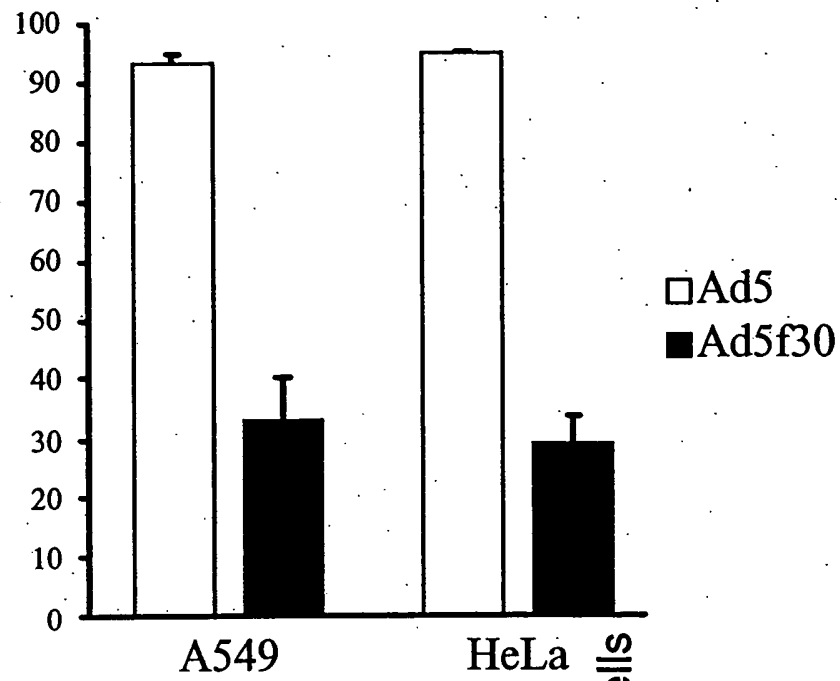
Figure 3.



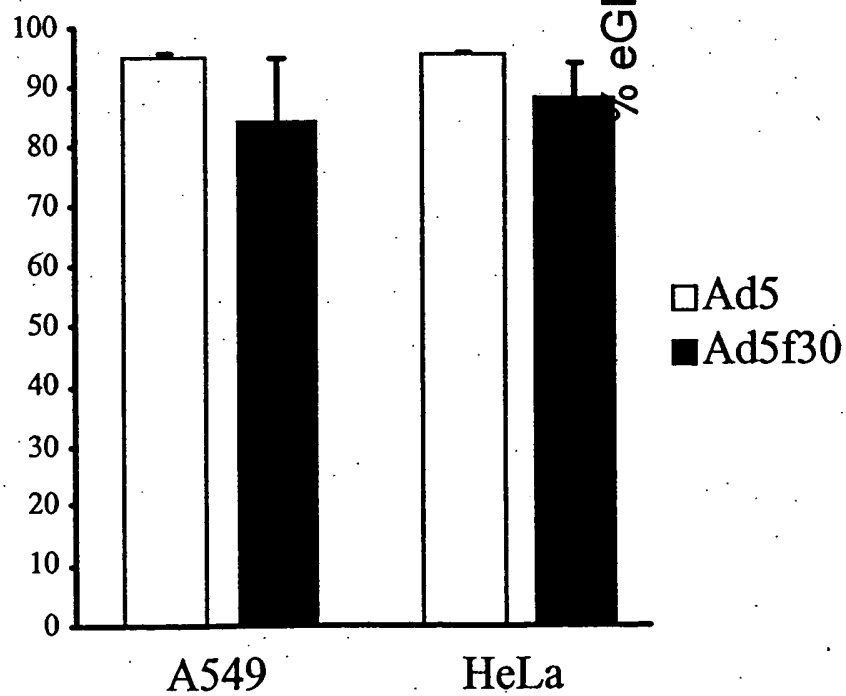
**Figure 4.**



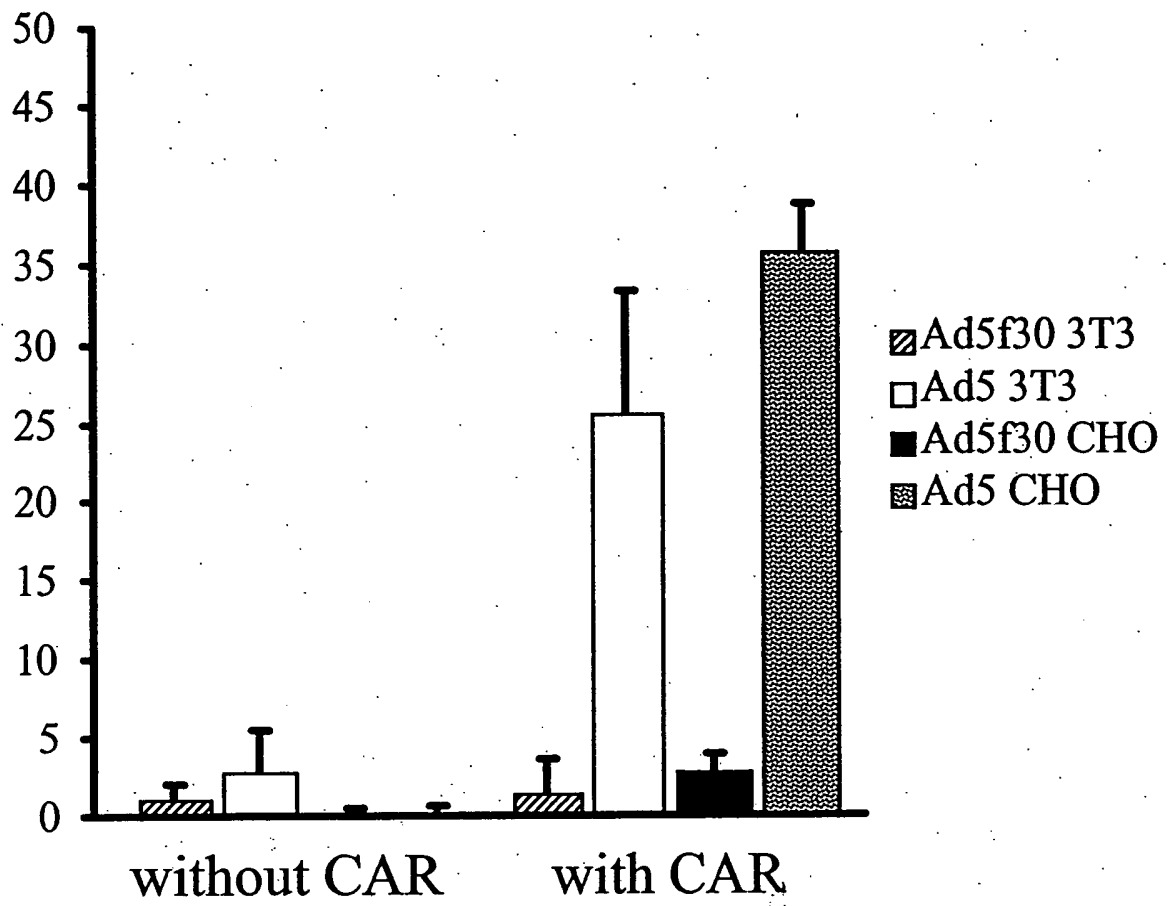
**Figure 5a.**



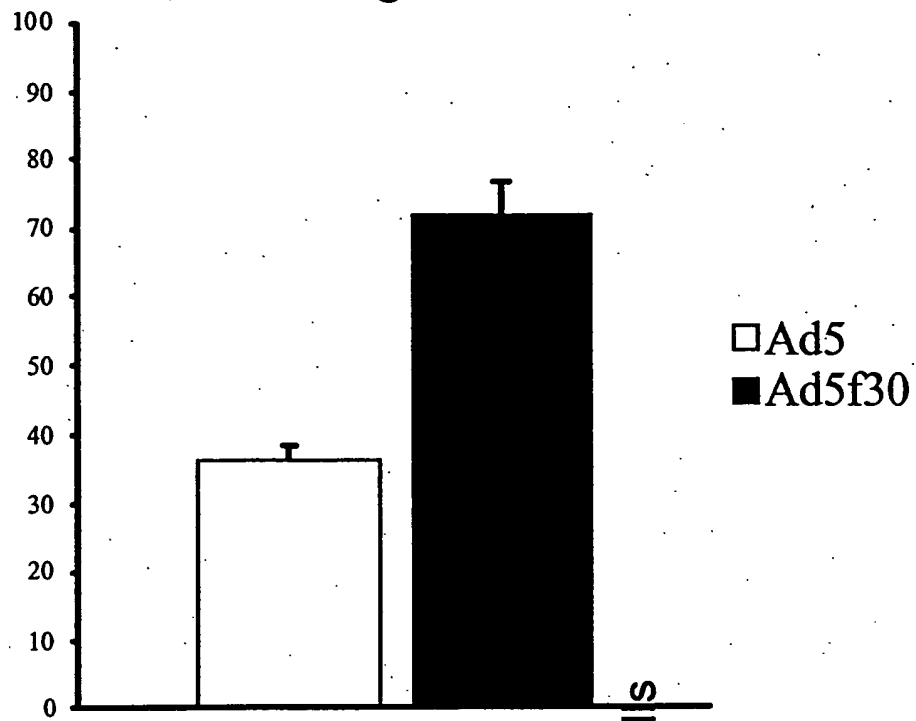
**Figure 5b.**



**Figure 6.**



**Figure 7a.**



**Figure 7b.**

